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\ \		INFORM	ATION RE	EPORT	CD NO.		
CUNTRY	\ Y Cżechoslova	kia			DATE DISTR.	3 APR 50	50X1-HUM
•		Chemical Works	near Host (Drüx)	NO. OF PAGES		
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l.o	stations of	" Chemical Work their own which a capacity of o	h can be conside	ered as among	the most mod	dern in	
2.	Coal requir	ed for the works rom the Elbe and	s is taken from I Eger Rivers	pits in the	neighborhood	. Vater	50X1-HUM
3 °	Security measures for the factory are directed by one man from the Ministry of the Interior, one man belonging to the Okresni Narodni Vybor (district national committee), one employee of the firm, and one fireman.						
le s	The Works Militia consists of 60 men per shift, together with one platoon of infantry.						
5.	The fire broom duty 24	igade consists o hours. About 60	of two troops of 00 employees are	approximate also traine	ly 30 men eac d as firemen.	ch who are	•
6.							
7.	Mines are laid inside the fence around the works' complex at intervals of approximately 10 meters. Outside the fence, at intervals of approximately 800 meters, there are watch towers with searchlights which are manned by troops.						
8.	with the gar system, and	as ordinary tele rrison Kormandan the sentries ha There is also a	utur in Nost. ¹ ve m icro-tel eph	here is an i ones which c	nternal work onnect with a	s telephone	9
9.	Before the i after the er as a result Reconstructi was original	oig air raid in first air raid, and of the war, o of the reconstrution of the destruction	650 cars of coa only 80 cars cou uction carried oyed plant is y ch this ain by	1 were handled to be handled out, 220 card lanned, and the end of 1	ed daily. In I per day. I s could be ha in the two-ye 948. Since t	mediately by August 194 Indled daily, ears plan it The second	us.
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at the proposed rate. Should this state of affairs continue, the work will not be completed until the end of 1950.

- 10. It is estimated that 6,000 workmen are employed, of whom 1,800 are engaged on reconstruction.
- 11. Enough coal is stored to last for a maximum of 10 days. The average received daily is 220 cars, each containing 10 to 15 tons. Main deliveries come from the following pits:
 - a. Columbus, in Waltheuorn (Zaluzi: F13)
 - b. Kohinor in Lom (Bruch: F13)
 - c. Zentrum
 - d. Julius II
 - o. Julius III
 - f. Anido IV
- 12. Of the 220 cars of coal received per day, approximately two-thirds go through the production process, while the remaining one-third is handled in the coking plant and briquette production plant. Approximately 70 to 75 carloads are therefore processed as heating material, of which over one-quarter is made into briquettes, and about three-quarters to coke.
 - a. Out of 100 kg. of coal are produced:

75 kg. coke

3 kg. tar

1.2 kg. armonia

18 kg. benzol

30 cu.m. gas

b. Under the assumption that 50 cars, each containing 10 tons of coal, go through the coking process, we have a daily production of:

375 tons of coke, of which approx. 8 to 10 percent is retort graphite

15 tons of tar

4 tons of benzol

150,000 cu.m. of gas (heating value for each cu.m. approx. 5,000 heat units)

13. The Daily Production of Liquid Fuels (maximum value in 1,000 HL).

In August, 1948, the production was approximately 30 recent of that of May, 1944.

Type of Fuel	May. 1944	Average 1948
Oils, together with Diesel Oils	6	1.8
Petroleum	6	1.8
Benzol	10.55	4.25
Benzine	18	5.2
Light Benzine	1.5	0.46

Benzine, Special Mixtures: The amount produced depends directly on the production of benzine. The proportion of the various nixtures is changed according to requirements.

Hethane (bottle pressure 200 ATM)

7 5

0.48

Ethane, Propane, Butane (bottle pressure 25 ATM) 0.6

0.19

The following are produced in unstated quantities:

Pure gas - probably for lighting

Mexicanol

Aviation gasoline

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The following chemicals are produced from benzol:

Indanthrene dyes Eosin Carbolic acid Methol-hydroquinene, rodinal. Tanning materials Aspirin Globol Bakelite Albuminous substances Explosives

The following special benzine mixtures are produced:

a. Double mixture ("Zweier-Gemisch")

89 percent Benzine 11 percent motor fuel, of which 2.2 percent is methanol; used for army and civilian administration cars.

Triple mixture (Dreier-Gemisch)

3 to 4 percent motor fuel ... at least 38.5 percent Benzel-wethanol mixture, the rest benzine; for the use of army trucks.

Triple mixture (Dreier-Gemisch)

3 to 4 percent motor finel, 3.5 to 5 percent methanol, at least 35 percent pure benzol, the rest Benzine; used for civil consumers.

d. Octane 67

From iso-octane and normal heptane. Used by civilian consumers, and also military trucks and cars. This mixture is also used for tanks which have "Otto"-benzine (synthetic gasoline) engines and not Diesel engines.

16. Explosives

Ammonium nitrate (from armonia liquor) Picric acid (from phenol) Various explosives for shells

Chloropierin;

Tear Gas (small production only for special orders)

18. Retort graphite

Sal ammondao Artificial manures (ammonia sulphate) Saccharine Aniline dyes Coal tar Waphthaline Anthracene Artificial indigo Dye stuffs (naphthol) Solvents (tetralin, etc) Salicylic acid (for medicaments and dyes)

19. Coke Briquettes

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20. Production Sequence

a. Process I

The coal is rassed over a sieve, cleaned, and broken up. Then it is liquified in large containers by means of heat. The cases produced are diverted by pipes.

Products:

Coke and briquettes Retort Graphite Volatile material (crude and pure gas) Tar Armonia Benzol

b. Process II

Products:

Ammunia liquor: sal ammoniac, ammonia nitrate; and explosives Hydrogen sulphide: sulphuric acid
Manures: ammonium sulphate and toluol, also explosives
Saccharine
Cyanogen compounds: cyanide, Berlin blue

c. Process III

The products of Process II are passed to the high-pressure mant and high-pressure chamber, where the residue of the fuels already distilled are separated. Tar is diverted, and the newly obtained fuels are passed through special pumping apparatus to the stabilizing plant and distilled under very high steam pressure. Products which are not required immediately for further production are stored in tanks.

Products:

Tar and pitch Light oils Medium oils Diesel oils Heavy oils

By refined distillation

Petroleum Crude benzol Naphthalic acid Antiracone Artifical indigo Dyestuffs Solvents

d. Process IV

Automobile gasoline, aviation gasoline and special casoline are produced by means of renewed high pressure steam distillation.

The gases produced during processes III and IV are purified in a compressor plant. Dissolution is into propane, butene and ethane; these products are stored in three containers, the capacity of each of which is 150 cu.m., while a fourth container serves for mixing, and liquid fuel (Treibgas) is mixed here. This is then taken to the fuel dump, and is either filled into

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bottles or into tanks. The rail transports, in so far as they do not serve the internal market, go mostly to the Russian Occupation Zone of Germany. A large part of the gasoline diesel oil, and petroleum produced passes through a pumping plant into pipes leading direct underground to Roudnice (Raudnitz) to the former "Fanta" dump.

Note: Since July 1945 oil has been brought from Zistersdorf and is processed in the works.

Products:

Petroleum Benzol and methanol Benzine Light benzine Benzine special mixtures Methane Propane Butane Phonol picric acid

o. Process V

The plants for this were destroyed during the war, and are being repaired. Products:

Salicylic acid - medicaments and dyestuffs (production only beginning)

Scheme for Planned Production of Further Artificial Elements - COAL

Atmospheric nitrogen

- ammonia -

Urea Carbon Monoxide Water

Calcium

Cole Carbide

Water

Formaldehyde

Carbolic acid Ethylene Benzol

Tar

Acetylene

Urea resins

Phenol resins

Vinyl benzene

Vinyl compounds: Vinyl acetate

Vinyl chloride etc.

Urea artificial products Phenol artificial products Artificial products on a Vinyl basis

Lacquer Comprised masses (sic) Refined artificial resin, lacquered materials,

hard tissues, and fiber materials

insulating material, machine parts

polymerizates -

blocks, Impregnating sheets, materials. pipes,

Insulating foils, lacquer bases, discasting material.

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